

SEP 14 2007

Application No. 10/827,072

LIST OF THE CLAIMS

A detailed listing of all claims that are, or were, in the present application, irrespective of whether the claim(s) remains under examination in the application are presented below. The claims are presented in ascending order and each includes one status identifier. Those claims not cancelled or withdrawn but amended by the current amendment utilize the following notations for amendment: 1. deleted matter is shown by strikethrough for six or more characters and double brackets for five or less characters; and 2. added matter is shown by underlining.

1. (Original) A collection of particles comprising lithium cobalt oxide or derivatives thereof, the collection of particles having an average diameter less than about 100 nm.
2. (Original) The collection of particles of claim 1 wherein the lithium cobalt oxide or derivatives thereof comprise a substituted lithium cobalt oxide with another metal selected from the group consisting of Ni, Mn, B, Al, Mg, Ba, Sr, Ca, Cr, Fe, V, Ti and combinations thereof.
3. (Original) The collection of particles of claim 1 wherein the lithium cobalt oxide or derivatives thereof comprise a substituted lithium cobalt oxide with a stoichiometry of  $\text{LiCo}_{1-y}\text{Me}_y\text{O}_2$ ,  $0 < y \leq 0.5$ , where Me is Ni, Mn, Al or combinations thereof.
4. (Original) The collection of particles of claim 1 wherein the lithium cobalt oxide or derivatives thereof comprise a substituted lithium cobalt oxide with a stoichiometry of  $\text{Li}_2\text{CoMnO}_4$ .
5. (Original) The collection of particles of claim 1 wherein the lithium cobalt oxide or derivatives thereof comprise a substituted lithium cobalt oxide with a stoichiometry of  $\text{Li}_2\text{CoNiO}_4$ .
6. (Original) The collection of particles of claim 1 wherein the lithium cobalt oxide or derivatives thereof comprise a substituted lithium cobalt oxide with a stoichiometry of  $\text{Li}_2\text{CoAlO}_2$ .

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7. (Original) The collection of particles of claim 1 having an average diameter from about 5 nm to about 25 nm.
8. (Original) The collection of particles of claim 1 wherein the collection of particles have a distribution of particle sizes such that at least about 95 percent of the particles have a diameter greater than about 40 percent of the average diameter and less than about 160 percent of the average diameter.
9. (Original) The collection of particles of claim 1 wherein effectively no particles have a diameter greater than about three times the average diameter of the collection of particles.
10. (Original) A battery comprising a cathode, the cathode comprising the collection of particles of claim 1.
11. (Withdrawn) A collection of particles comprising lithium nickel oxide or derivatives thereof, the collection of particles having an average diameter less than about 100 nm.
12. (Withdrawn) The collection of particles of claim 11 wherein the lithium nickel oxide or derivatives thereof comprise a substituted lithium nickel metal oxide wherein the metal is selected from the group consisting of Mn, B, Co, Al, Mg, Ba, Sr, Ca, Cr, Fe, V, Ti and combinations thereof.
13. (Withdrawn) The collection of particles of claim 11 wherein the lithium nickel oxide or derivatives thereof comprise lithium nickel aluminum oxide.
14. (Withdrawn) The collection of particles of claim 11 wherein the lithium nickel oxide or derivatives thereof comprises  $\text{Li}_x\text{Ni}_{1-y}\text{Me}_y\text{O}_2$ , wherein Me is Mn, B, Co, Al, Mg, Ga, Ba, Sr, Ca, Cr, Fe, V, Ti or combinations thereof and wherein  $0.8 \leq x \leq 1$ .
15. (Withdrawn) The collection of particles of claim 14 wherein  $0 \leq y \leq 0.2$ .

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16. (Withdrawn) The collection of particles of claim 14 wherein M is Co and wherein  $0 \leq y \leq 0.5$ .
17. (Withdrawn) The collection of particles of claim 11 wherein the particles have an average diameter of from about 5 nm to about 25 nm.
18. (Withdrawn) The collection of particles of claim 11 wherein the collection of particles have a distribution of particle sizes such that at least about 95 percent of the particles have a diameter greater than about 40 percent of the average diameter and less than about 160 percent of the average diameter.
19. (Withdrawn) The collection of particles of claim 11 wherein effectively no particles have a diameter greater than about three times the average diameter of the collection of particles.
20. (Withdrawn) A battery comprising a cathode, the cathode comprising the collection of particles of claim 11.
- 21-42. (Canceled)